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A multiple function pump station performs different on-line processing tasks. The pump station can be operated in one mode to draw blood from a donor can, in another mode, be operated to return blood to the donor. The pump station used to draw blood from a donor can also be used to perform subsequent blood processing tasks, such as mixing processing or additive fluids with the blood, or transferring a harvested blood component to a storage container, or finishing the processing of a harvested blood component, e.g., by passage through a filter to remove leukocytes.